



# **Defense Advanced Research Projects Agency (DARPA) Information Resources Directorate (IRD) Proposers' Day Brief**

**August 1, 2005**



# Opening Remarks



- Speakers' Introductions
  - Anthony E. Cicala, CMO Contracting Officer
  - Kenneth Hayden, IRB Director
  - Brian Sweeney, IRB Program Manager
  - Nick Lemberos, IRB Network & Security Manager
- Handling Questions and Answers
- Non-Attribution
  - Presentation based on best available information at present, but subject to change
- Ground Rules



# Agenda



## Morning Session

8:30 – 9:00	Sign-In
9:00 – 9:10	Opening Remarks/ Guests and
Introductions of Speakers	
9:10 – 9:50	Current environment
9:50 – 10:00	General Contracts'
Information	
10:00 – 10:15	Break
10:15 – 11:00	Requirements: New
Contracts	
11:00 – 11:15	Q&A
11:15 – 11:30	Closing Comments

Unclassified



# Agenda



## Afternoon Session

12:30 – 13:00	Sign-In
13:00 – 13:10	Opening Remarks/ Introductions of Guests and Speakers
13:10 – 13:50	Current Environment
13:50 – 14:00	General Contracts' Information
14:00 – 14:15	Break
14:15 – 15:00	Requirements: New Contracts
15:00 – 15:15	Q&A
15:15 – 15:30	Closing Comments



# DARPA Mission



Maintain the technological superiority of the U.S. military and prevent technological surprise from harming our national security by sponsoring revolutionary, high-payoff research that bridges the gap between fundamental discoveries and their military use.



# Common Acronyms



- DIRO – Director 's Office
- OMO – Office of Management Operations. SID and IRD are part of OMO
- SID – Security & Intelligence Directorate
- Technical Office – Research Office. DARPA is comprised of Administrative Offices (such as OMO) and several Technical Offices
- PM – Program Manager
- SETA - Support Contractor. Many of IRD's customers are support contractors
- Agent – Contracting Agency. DARPA contracts are often let by agencies other than DARPA
- Performer – Vendor. Person executing a contract



Provide state-of-the-art technology and support services in a seamless fashion to allow DARPA to conduct state-of-the-art research and development.

Note: DARPA envisions that the successful offerors will provide and manage the full range of Information Technology Services, support and infrastructure necessary to implement the DARPA and IRD Missions.



# DARPA IT Philosophy



- Use IT to maximize effectiveness of Program Managers (PMs)
  - Highly interactive, enthusiastic, and professional customer support
  - Users not expected to be experts
  - Secure Environment (Confidentiality, Integrity, and Availability)
  - Heterogeneous environment
  - Maximize choices (Flexibility)
  - High reliability
  - Best Value



# Goals



## High system reliability

- High-end security while fully supporting the PMs' IT-related needs
- Strong customer relationships
- Partnerships with key Agency stakeholders
- Transparent transition to any new environment
- Implement best of class hardware and software in an open architecture
- Any Time/Any Place Computing
- Robust collaboration with Performers and Agents
- Leverage DARPA-developed tools where appropriate
- Striking a balance through risk management
  - Capabilities
  - Security
  - Cost



# Existing Contract

Unclassified

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# Existing Contract



- EXISTING CONTRACT DETAILS:

- Combination Fixed Price Award Fee/Cost Plus Award Fee

- [TOTAL VALUE with OPTIONS: \$78,367,262]

- Transition Period + BASE Period + Three One Year Options:

- \* Transition In: 23 APR 01 thru 30 SEP 01

- \* BASE Period: 01 OCT 01 thru 31 DEC 02

- \* Option 1 Period: 01 JAN 03 thru 31 DEC 03

- \* Option 2 Period: 01 JAN 04 thru 31 DEC 04

- \* Option 3 Period: 01 JAN 05 thru 31 DEC 05

- \* Transition Out: Contract Award Up to 90 Days  
Unclassified



# Existing Contract (Cont'd)

- Transition:

- The successful offerors for the unclassified and classified contracts shall propose and (after government approval) provide transition services

- Assets, services, and support from the incumbent will be transferred

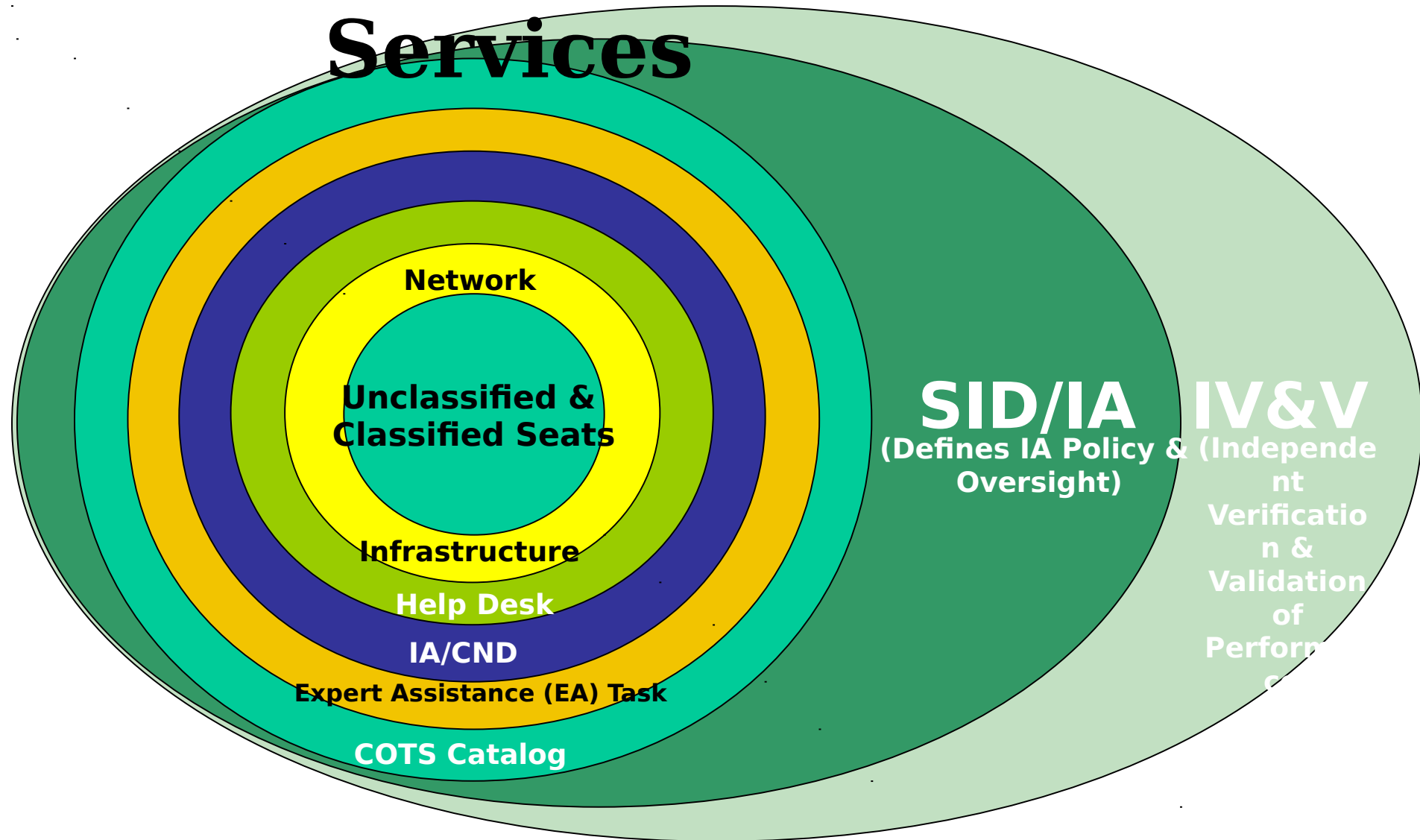
- Assets must be purchased from incumbent at depreciated value (~ \$4,100,000)

- During Transition, the government will make the incumbent contractor available for a period of time

- DARPA currently provides ~15,000 square

Unclassified

# Existing IT Services



Unclassified



# Key Elements of Existing IT Services

- Service Delivery Points (Seats)
  - Network Infrastructure
  - Help Desk
  - Information Assurance/Computer Network Defense (IA/CND)
- Expert Assistance (EA) Tasks
- Commercial Off-The-Shelf (COTS) Catalog



- Unclassified IT
- Classified IT
- Red Team Testing & Security Analysis

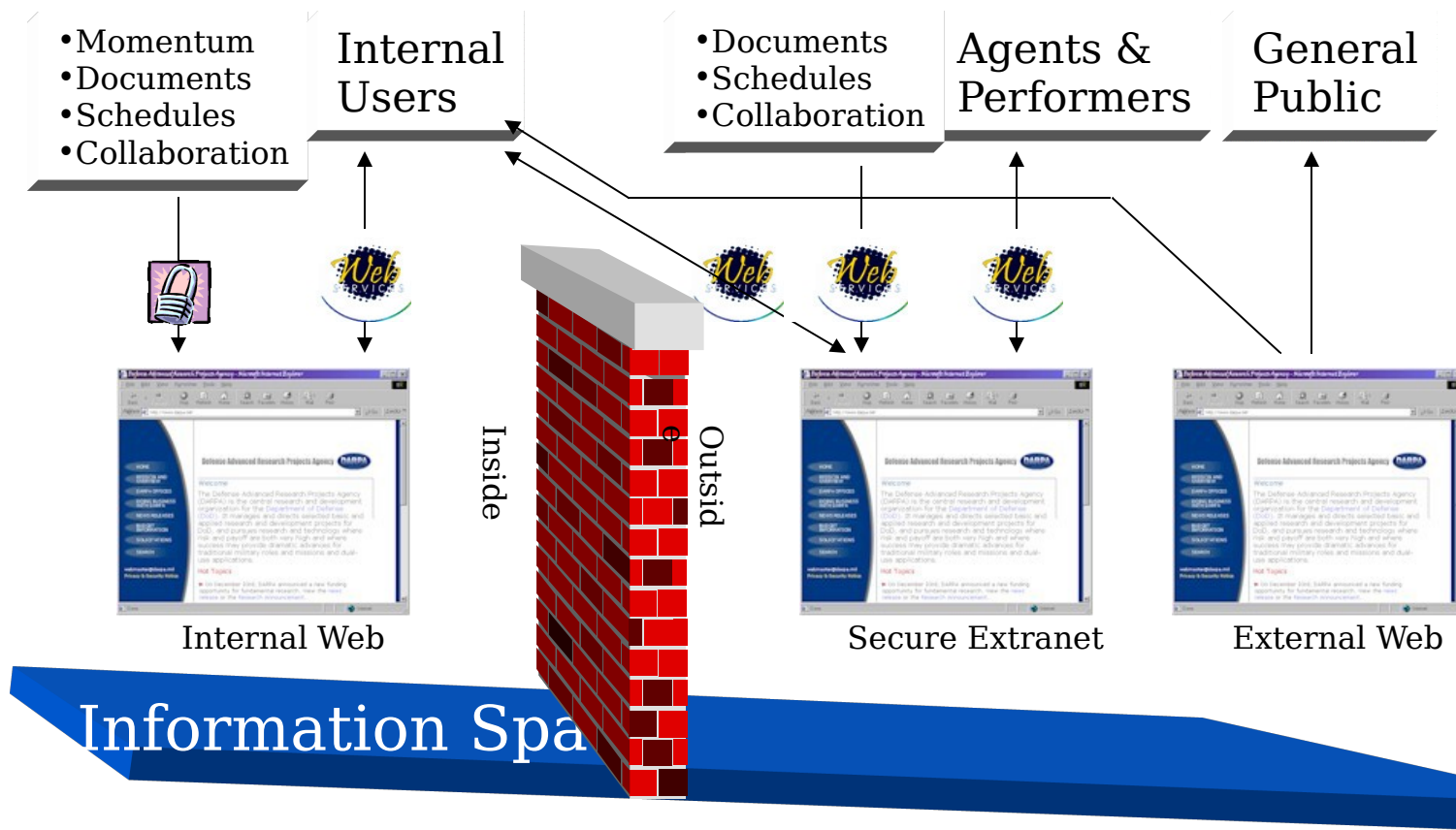


# Unclassified IT Capabilities

- Primary DARPA Network: DMSS
  - Classification Level: Sensitive but Unclassified/FOUO
  - Current Seats:
    - User Accounts: (~ 1100)
    - Fixed Workstations: (~700)
    - Portable Workstations: (~900)
    - PDA/Blackberries (~400)
    - Printers (~500)
    - Cell Phones (~160)
- HPC.ORG
  - Classification Level: Unclassified
  - Provides Internet access separate from DMSS



# Enterprise Web Portals



World-wide and Secure computing based on a reliable and service oriented a

Unclassified

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# Classified IT Capabilities

- General Scope\*
  - DARPA Classified User Accounts: 470
  - Fixed Workstations: 150
    - Removable Hard Drives: 170
  - Portable Workstations: 50
    - Removable Hard Drives: 20
  - Thin Client Terminals: 50
  - Storage:
    - 345GB of users data stored on all servers
    - 60% increase over past 6 months
    - 87GB of data stored on secure web server
    - Operating at 50% of storage capacity
    - Average of 6.3GB processed on secure web applications monthly
      - Posted to Multi-Level secure file library
      - Transitional data maintained by each user

\*Note: Fewer accounts and workstations will be required with an integrated PL3 Solution.



# DARPA CLASSIFIED Networks



## DARPA STAND-ALONES



- Classifications Range from Collateral Secret to TS/SCI
- Windows Environment
- 66 Fixed W/S
- 32 Portable W/S

## “As Is” Topology EXISTING COMMON



**Network A**

- TS/SAP
- PL2 (SAP Only)
- Windows Environment
- 16 Fixed W/S
- 32 ACCOUNTS



**Network C**

- TS/SAP/SCI
- PL1
- Windows Environment
- PT TO PT
- 2 Fixed W/S
- 2 Accounts



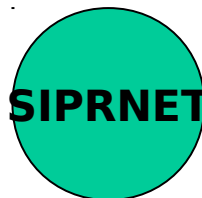
**Network B**

- TS/SAP
- PL2 (SAP Only)
- Windows Environment
- 26 Fixed W/S
- 4 Portable W/S
- 40 Accounts



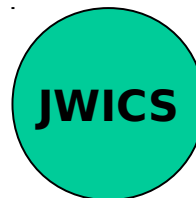
**Network D**

- TS/SAP/SCI
- PL4
- Trusted Solaris
- 3 Fixed W/S
- 3 Thin clients
- Email Integration



**SIPRNET**

- Collateral Secret
- 24 Fixed W/S
- 8 Portable W/S
- 44 WYSE Terminals
- 269 Accounts



**JWICS**

- TS/SCI
- PL2
- 19 Fixed W/S
- 1 Portable W/S
- 129 Accounts



**GWAN**

- 12 W/S

## IN PROGRESS



**Network E**

- TS/SAP
- PL1
- WEB PORTAL
- 1 Program
- START 3<sup>RD</sup> QTR 05



**Network F**

- TS/SAP
- PL2
- START 3<sup>RD</sup> QTR 05



# Existing Red Team Testing & Security Analysis Capabilities



- DARPA employs security assessment teams (Red and Blue Teams) to conduct authorized simulated attacks against operational DARPA networks to ensure the DARPA infrastructure satisfies DARPA, DoD, and national security requirements.
  - Leadership is government based
  - Contractor support personnel supplement government personnel in conducting security assessment operations
  - Red and Blue Teams conduct design, product, and configuration reviews.
  - Red Teams focus on identifying vulnerabilities and risk associated with operation of the DARPA infrastructure



# **General Contracts' Information**

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# General Information



- Ground Rules
- INTENDED ACQUISITION STRATEGY
  - 3 Solicitations/3 Separate Contract Awards for the following:
    - \* Unclassified Support
    - \* Classified Support
    - \* Red Team Testing & Security Analysis
- Reminder: Email Request for GSA schedule information
- Solicitations will govern official requirements



# Agent Involvement



- OFFICIAL CONTRACTING AGENT:

DARPA Contracts Management Office (CMO) will release anticipated solicitations, negotiate and award anticipated contracts

- Official Point of Contact
  - Anthony E. Cicala ([anthony.cicala@darpa.mil](mailto:anthony.cicala@darpa.mil))



# Intended Acquisition Strategy

- BEST VALUE Concepts
  - Response to RFP provides the greatest overall benefit to DARPA
  - Highly skilled, properly cleared employees with focus on *customer satisfaction* and *responsiveness*
  - *Flexible* to changing conditions
  - *Proactive* and *Innovative* in addressing DARPA's needs



# Intended Acquisition Strategy (Cont'd)

- BEST VALUE Concepts (Cont.)
  - Continuous Awareness of *rapidly changing* Information Technology (IT) environment, with ability to apply/implement new (i.e. *State of the Art*) technology for use by DARPA with **no, or minimum, impact to cost** and **no, or minimum, administrative burden**
  - Clear and distinct *demarcation* of contractor responsibilities, **but** ability to work *cooperatively* and *collectively* as a whole to **best satisfy DARPA's mission needs**



# Evaluation

## Criteria

- Technical Capabilities
- Past Performance
- Management Experience
- Cost Realism



# Break

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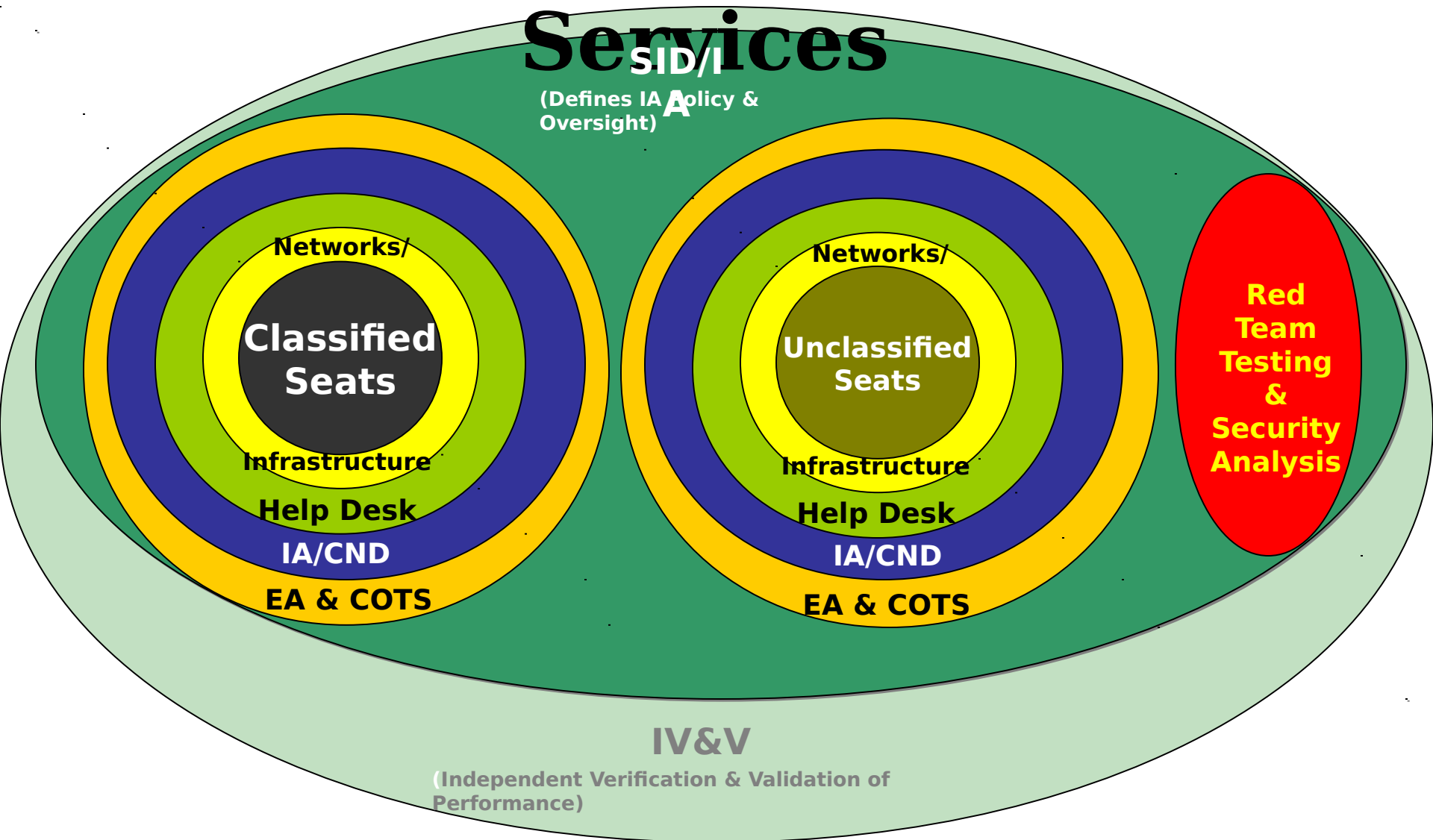
# New Contracts'

## Objectives

- Strengthen & Validate Information Assurance and Network Defense Functions
- Continuous Improvement of Technical Offerings
- Timeliness and Accuracy of Reporting
  - Dashboard (real-time)
- Provide Services on a Par with DARPA's Increasing Complexity of Classified and Unclassified Systems and Networks
- Maximize Services Included in Seats

# Proposed IT

## Services



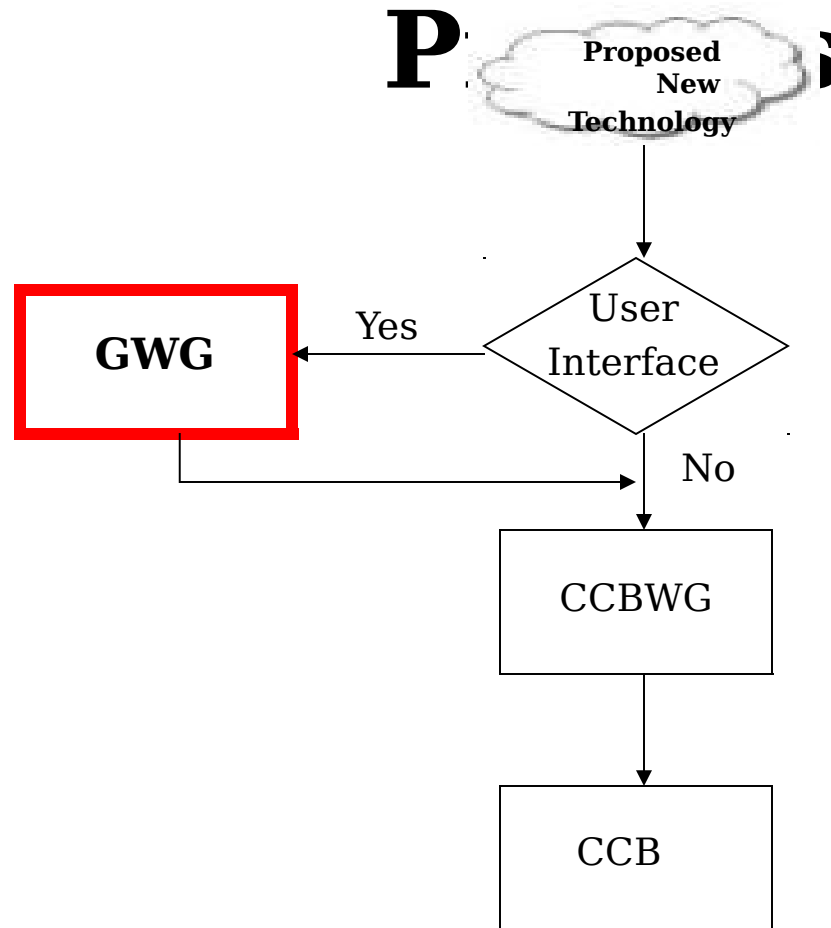
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# Government

## Responsibilities

- Contracts Management
- Oversight
  - Configuration Control Board (Co-chaired w/performers)
  - Financial
  - Information Assurance
  - Network & Security
  - Independent Verification and Validation (IV&V)
- IT Customer Liaison



Government Work Group (GWG) - Senior Management  
 Configuration Control Board (CCB) - Government and Performer Team oversight  
 Configuration Control Board Working Group (CCBWG) - Government Advisor and Technical team

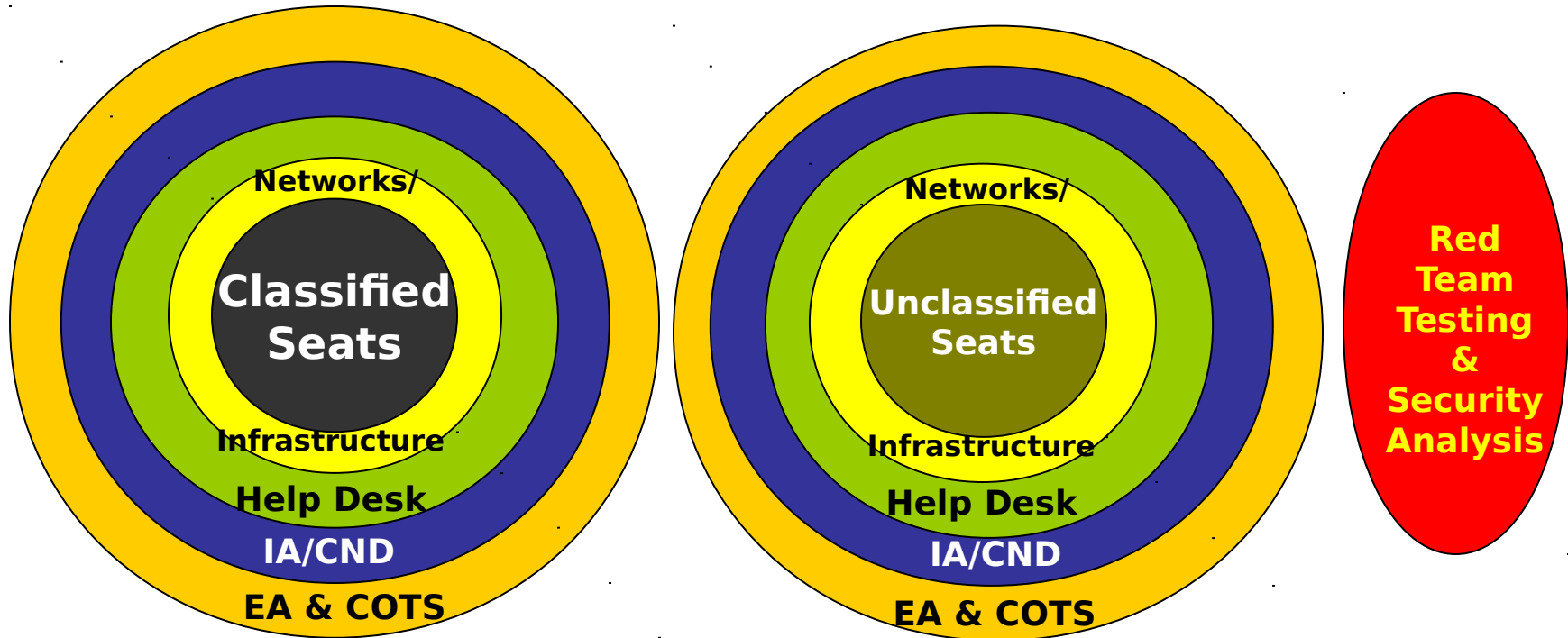


# Intended Acquisition Strategy

- **3 SOLICITATIONS for 3 SEPARATE REQUIREMENTS**
  - Performance Based Unclassified IT Support Services
    - Anticipate application of DD Form 254 (Secret)
    - Fixed Price Award Fee & Cost Plus Award Fee
  - Performance Based Classified IT Support Services
    - Anticipate application of DD Form 254 (Top Secret/SCI)
    - Fixed Price Award Fee & Cost Plus Award Fee
  - Red Team Testing & Security Analysis Services
    - Anticipate application of DD Form 254 (Secret)
    - Cost Plus Award Fee



# Proposed IT Service Contracts



Unclassified

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# Intended Acquisition Strategy

- 3 SOLICITATIONS for 3 SEPARATE REQUIREMENTS

- Can respond to more than one RFP, but must respond to each separately. May not combine proposals.

- If you bid multiple proposals, you **MAY** submit an "Efficiency Addendum"

- If you bid multiple proposals to include Red Team Testing & Security Analysis, you **MUST** submit a OCI Mitigation Plan

- Must meet security requirements of the RFP.  
(Anticipate Minimum of SECRET clearance level for Unclassified IT and Red Team awards and Top Secret/SCI clearance level for Classified IT award.)

- GOVT *does not* intend to play major **SYSTEMS INTEGRATION** Role.

Unclassified



# Solicitations' Terms and Conditions



- Unclassified
  - Seats, Fixed Price Plus Award Fee
  - COTS Catalog, Cost Plus Award Fee
  - Expert Assistance Tasks (EAs), Cost Plus Award Fee
- Classified
  - Seats, Fixed Price Plus Award Fee
  - COTS Catalog, Cost Plus Award Fee
  - Expert Assistance Tasks (EAs), Cost Plus Award Fee
- Red Team Testing & Security Analysis
  - Services, Cost Plus Award Fee



# Unclassified IT



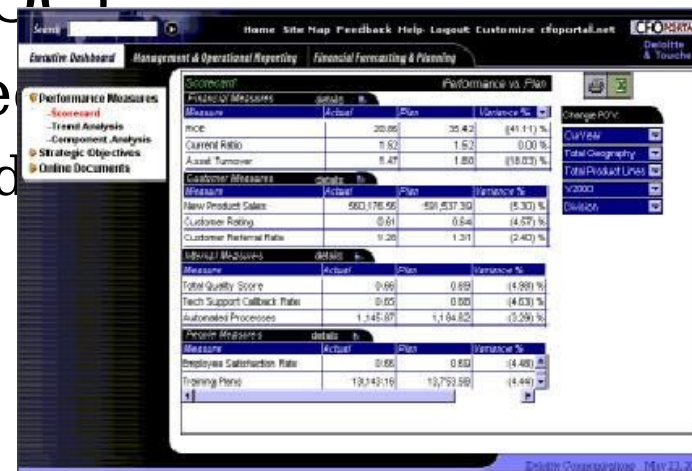
## Scope

- Service Delivery Points (includes Seats)
- Customer Information Technology Services
- Information Assurance/Computer Network Defense Services
- Catalog Services
- Transition Services
- Creation of a Continuity of Operations Plan (COOP), in coordination with the government, which includes remote storage and a hot backup site



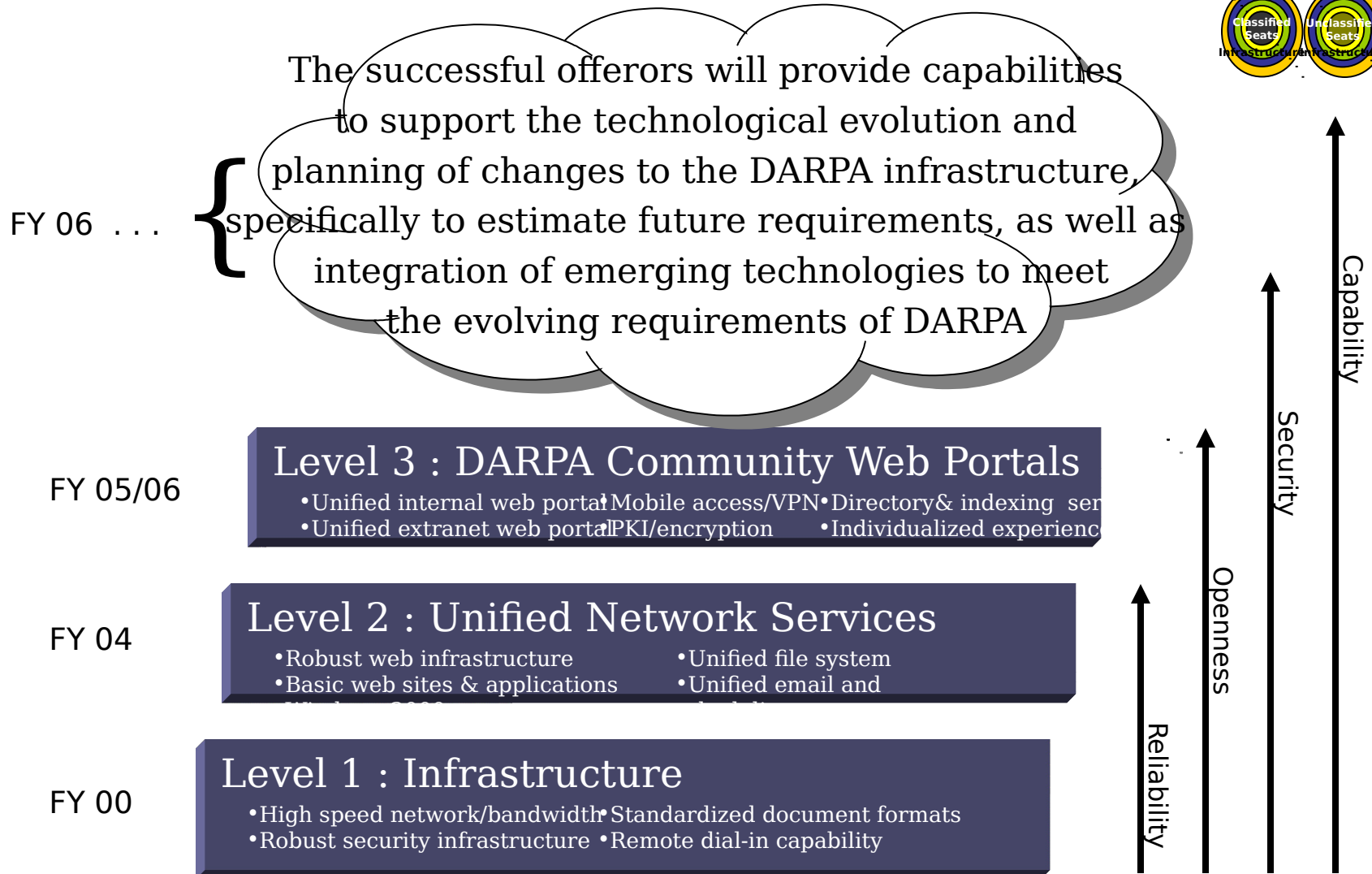
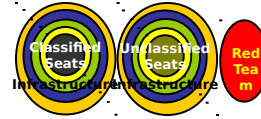
# Information Sharing Requirements

- All DARPA information resources and contractor generated data such as system log data, documentation, help desk tickets, inventory data, program code, automated scripts and ancillary information under the contract is owned by the Government. Authorized DARPA staff and contractors shall have full and unrestricted access to such data. The contractor shall provide on-going direct systems/automated access to DARPA security files and databases.
- Security Operations Center (SOC)
- Virtual Operations Center (Executive Management Dashboard)
  - Executive management dashboard
  - All IT Governance functions will have management visualization





# Technology Enhancements Incremental Evolution



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# Unclassified Contracts' Customer Service Elements

Elements	Contract Structure	Service Level Objectives
Basic User Services	Help Desk/Network & Infrastructure	Email, Calendaring, and Shared File Service; Data Management; Moves, Adds, Changes, and Deletions
Help Desk Services	Help Desk	Ticket Resolution; Password and Account Resets; Accuracy; Responsiveness
Communication Services	Networks & Infrastructure	Network and Internet Services (availability & capacity); Remote Connectivity Services (availability & capacity)
Information Assurance Services	IA/CND	Security Software Distribution; Security Briefing; Incident Response (timeliness & effectiveness); Security Reporting
Logistics Services	Networks & Infrastructure	Configuration and Asset Management
Program Management Services	Management Plan	Availability & Responsiveness; Flexibility & Innovation; Reporting Timeliness & Accuracy; Procedural Compliance



# Key Personnel For Unclassified IT Services

- Program Manager
- Deputy Program Manager
- Security Manager
- Network Operations Manager
- Customer Relationship Manager  
(Customer Advocate)
- VIP Help Desk Analysts (two estimated)



# Classified IT

Unclassified

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# Classified IT Services

## Scope

- Service Delivery Points (includes Seats)
- Customer Information IT Services
- Information Assurance/Computer Network Defense Services
- Catalog Services
- Transition Services
- Data Migration



# Classified IT



## Requirements

- PL3 System Requirements
  - **Fully Accredited PL3 Network Solution**, with wide acceptance in the SAP and Intelligence communities
  - Complete and Integrated System Solution available for implementation at contract award, which includes:
    - Front-end, Back-end, and Middleware
    - Clients, Servers, and Applications
    - Windows-based Client Interface
    - Certification & Accreditation Responsibilities
    - Integrate legacy PL1, PL2 and PL4 networks
  - External connectivity through the Internet
  - DCID 6/3 Compliant
  - Confidentiality = High
  - Integrity = Medium
  - Availability = Basic
- Managed Seat Services for all DARPA Classified Networks and Systems
- On-site Sustainment for Guest Networks (e.g., SIPRNet and JWICS)
- Creation of a Continuity of Operations Plan (COOP), in coordination with the government, which includes remote storage and a hot backup site

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# Classified IT

## Requirements

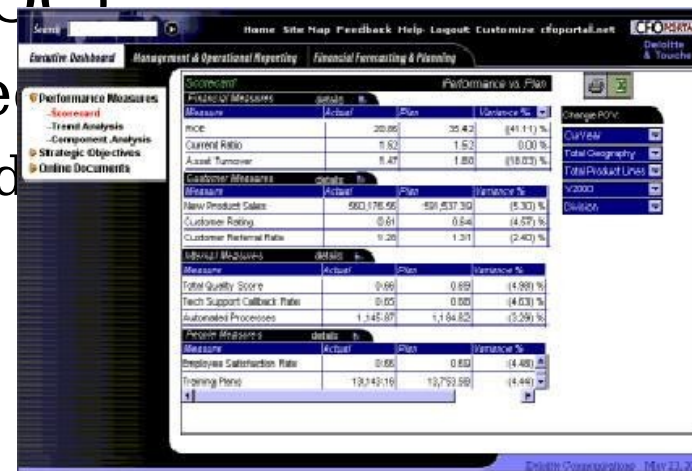
- General Scope\*
  - DARPA Classified User Accounts: 470
  - Fixed Workstations: 150
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\*Note: Fewer accounts and workstations will be required with an integrated PL3 Solution.



# Information Sharing Requirements

- All DARPA information resources and contractor generated data such as system log data, documentation, help desk tickets, inventory data, program code, automated scripts and ancillary information under the contract is owned by the Government. Authorized DARPA staff and contractors shall have full and unrestricted access to such data. The contractor shall provide on-going direct systems/automated access to DARPA security files and databases.
- Security Operations Center (SOC)
- Virtual Operations Center (Exec)
  - Executive management dashboard
  - All IT Governance functions will have management visualization





# Incremental Evolution

The successful offerors will provide capabilities to support the technological evolution and planning of changes to the DARPA infrastructure, specifically to estimate future requirements, as well as integration of emerging technologies, including those which provide higher Protection Level accreditation, including PL-3 to meet the evolving requirements of DARPA.



# Classified Contracts' Customer Service Elements



Elements	Contract Structure	Service Level Objectives
Basic User Services	Help Desk/Network & Infrastructure	Email, Calendaring, and Shared File Service; Data Management; Moves, Adds, Changes, and Deletions
Help Desk Services	Help Desk	Ticket Resolution; Password and Account Resets; Accuracy; Responsiveness
Communication Services	Networks & Infrastructure	Network and Internet Services (availability & capacity); Remote Connectivity Services (availability & capacity)
Information Assurance Services	IA/CND	Security Software Distribution; Security Briefing; Incident Response (timeliness & effectiveness); Security Reporting
Logistics Services	Networks & Infrastructure	Configuration and Asset Management
Program Management Services	Management Plan	Availability & Responsiveness; Flexibility & Innovation; Reporting Timeliness & Accuracy; Procedural Compliance



# Key Personnel for Classified Services



- Program Manager
- Deputy Program Manager
- Security Manager
- Network Operations Manager
- Customer Relationship Manager  
(Customer Advocate)
- VIP Help Desk Analyst (one estimated)



# **Red Team Testing & Security Analysis**



# Red Team Security Testing & Analysis Scope



- Comprehensive, and no less than quarterly, penetration testing of DARPA networks utilizing the latest tools and techniques
- Tests should include, but not be limited to, emulated Internet, intranet, wireless, extranet and social engineering based attacks
- Test results, including all data, shall be close hold, perhaps classified and delivered to the approved government officials
- If vulnerabilities are discovered, the government shall be notified immediately, and a comprehensive action plan to mitigate the identified risks will be developed and provided to the government
- On-going analysis of audits and logs



# Red Team Testing and Analysis Contract Requirements



- Strengthen Information Assurance and Network Defense Functions
- Identify vulnerabilities and risks
- Analysis of audits and logs
- Test and validate the effectiveness of:
  - security controls and policies
  - devices, networks and systems
  - personnel response
  - access controls
- Recommend:
  - Countermeasures and improvements to facilities
  - Equipment
  - Personnel Qualifications for Classified and Unclassified contracts
  - Plans and procedures
  - Training



# Information Sharing

## Requirements

All DARPA information resources and contractor generated data such as system log data, documentation, help desk tickets, inventory data, program code, automated scripts and ancillary information under the contract is owned by the Government. Authorized DARPA staff and contractors shall have full and unrestricted access to such data. The contractor shall provide on-going direct systems/automated access to DARPA security files and databases.



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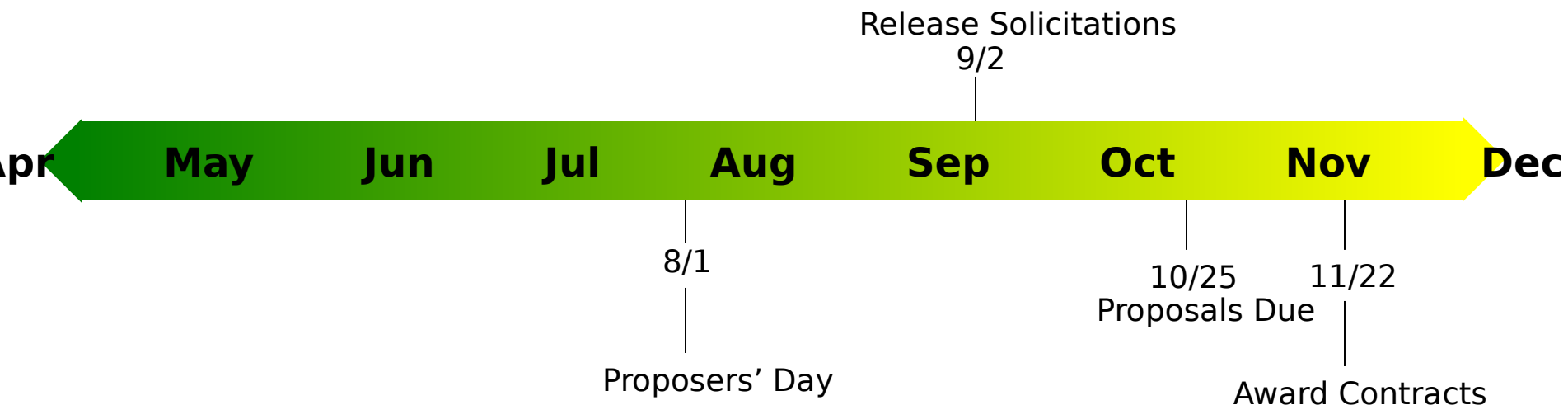
# Key Personnel for Red Team Testing & Analysis



- Program Manager
- Deputy Program Manager



# Anticipated Solicitations' Timeline



- **Schedule**

- Conduct Proposers' Day - 8/1
- Release Solicitations - 9/2
- Written Proposals Due - 10/25
- Award Contracts - 11/22



# Administrative Details



To access additional information please visit: <http://www.darpa.mil/rfp/>

GOVT *official* focal point for questions:

Email:

To: [anthony.cicala@darpa.mil](mailto:anthony.cicala@darpa.mil)

Cc: [IRD-Offerors@darpa.mil](mailto:IRD-Offerors@darpa.mil)



# Responses to Submitted Questions